



THE LAB EQUIPMENT

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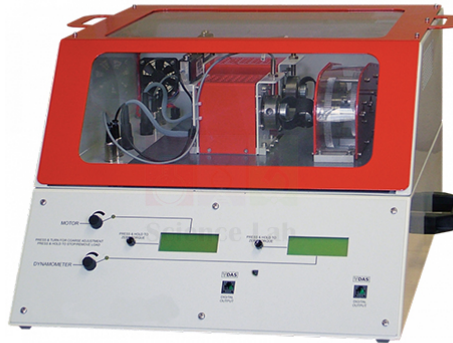
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**Product Name :**

Geared Systems

**Product Code :**

SLE/ETM/12



## Description :

- A bench-mounting base unit forms the main part of this set of products.
- The dynamic tests run the input of the different drive units at a given speed using a motor, while measuring the input power.
- Dynamometer loads the output of the drive unit while measuring the output power.
- A variable-speed, low-voltage motor provides the shaft input turning force (effort) to the drive.
- A dynamometer provides the output braking force (load) to the drive.
- The dynamometer uses electromagnetic braking and a hysteresis effect to provide a variable load at a constant torque irrespective of the speed.
- Sensors on the motor and dynamometer measure their shaft speed, torque and therefore power in and out at the drive.
- Flexible couplings with collets connect the drive unit to the motor and dynamometer for quick and accurate alignment.
- Students use the measurements to find the performance and efficiency of the drive unit.
- Axial trunnions with race bearings hold the motor and the dynamometer for free rotation against their load cell sensors to measure torque accurately.
- Supplied with a three-shaft gear drive unit as standard, the base unit dynamically tests the gear drive and the other optional drive units.

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